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TITLE: Dispersions of surface-stabilised polymer particles in non-aq. medium - are useful components in cosmetic, pharmaceutical and hygiene compsns. e.g. sunscreen or skin- or hair-care compsns.

INVENTOR: MONDET, J; MOUGIN, N

PATENT-ASSIGNEE:

ASSIGNEE

CODE

L'OREAL SA

OREA

PRIORITY-DATA: 1995FR-0007428 (June 21, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 3225967 B2	November 5, 2001		010	A61K007/00
EP 749747 A1	December 27, 1996	F	012	A61K007/035
WO 9700663 A1	January 9, 1997	F	032	
FR 2735689 A1	December 27, 1996		013	A61K009/10
JP 10501005 W	January 27, 1998		029	A61K007/00
EP 749747 B1	December 16, 1998	F	000	A61K007/035
US 5851517 A	December 22, 1998		000	A61K007/02
DE 69601147 E	January 28, 1999		000	A61K007/035
ES 2128149 T3	May 1, 1999		000	A61K007/035
JP 2000044426 A	February 15, 2000		009	A61K007/00

DESIGNATED-STATES: AT BE CH DE ES FR GB IT LI NL SE CA JP US AT BE CH DE ES FR GB IT  
LI NL SE

CITED-DOCUMENTS: 1.Jnl.Ref; EP 409690 ; EP 447286 ; EP 486394 ; EP 502769 ; GB 1202796  
; JP 78094041 ; WO 9509874

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 3225967B2	June 17, 1996	1996WO-FR00929	
JP 3225967B2	June 17, 1996	1997JP-0503614	
JP 3225967B2		JP 10501005	Previous Publ.
JP 3225967B2		WO 9700663	Based on
EP 749747A1	June 17, 1996	1996EP-0401312	
WO 9700663A1	June 17, 1996	1996WO-FR00929	
FR 2735689A1	June 21, 1995	1995FR-0007428	
JP 10501005W	June 17, 1996	1996WO-FR00929	
JP 10501005W	June 17, 1996	1997JP-0503614	
JP 10501005W		WO 9700663	Based on
EP 749747B1	June 17, 1996	1996EP-0401312	
US 5851517A	June 17, 1996	1996WO-FR00929	
US 5851517A	February 21, 1997	1997US-0793266	
US 5851517A		WO 9700663	Based on
DE 69601147E	June 17, 1996	1996DE-0601147	
DE 69601147E	June 17, 1996	1996EP-0401312	
DE 69601147E		EP 749747	Based on
ES 2128149T3	June 17, 1996	1996EP-0401312	
ES 2128149T3		EP 749747	Based on
JP2000044426A	June 17, 1996	1997JP-0503614	Div ex
JP2000044426A	June 17, 1996	1999JP-0214325	

INT-CL (IPC): A61 K 7/00; A61 K 7/02; A61 K 7/021; A61 K 7/035; A61 K 7/06; A61 K 7/11; A61 K 7/42; A61 K 7/48; A61 K 9/10; A61 K 47/30; A61 K 47/44

ABSTRACTED-PUB-NO: EP 749747A

BASIC-ABSTRACT:

Compsns. (I) comprise, in a medium acceptable for cosmetic, pharmaceutical and/or hygienic use, a dispersion of particles of at least one polymer surface-stabilised by a stabilising agent in a non-aq. medium, provided that: (a) the non aq. medium is composed of at least one non-aq. liq. chosen from (i) non-aq. liq. compsns. having an overall solubility parameter in the HANSEN interval of solubility of < 17 (MPa)<sup>1/2</sup>, and/or (ii) mono-alcohols with an overall solubility parameter in the HANSEN interval of solubility of at most 20 (MPa)<sup>1/2</sup>; and (b) (i) when the non-aq. medium comprises at least one silicone oil, the stabilising agent is chosen from graft or sequenced block copolymers having at least one polyorganosiloxane unit and at least one radical polymer unit, or a polyether or a polyester; and (ii) when the non-aq. medium contains no silicone oil, the stabilising agent is chosen from (A) graft or sequenced block copolymers having at least one polyorganosiloxane unit and at least one radical polymer unit, or a polyether or a polyester, (B) copolymers of (meth)acrylates of 1-4C alcohols and copolymers of (meth)acrylates of 8-30C alcohols; and (C) graft or sequenced block copolymers having at least one block resulting from the polymerisation of dienes and which is opt. hydrogenated, and at least one block of a vinyl polymer, an acrylic polymer, a polyether and/or a polyester.

USE - (I) are useful, together with additional ingredients such as waxes, oils, gums, hydrocarbon or silicone greases, pigments, fillers, or mother of pearl, in the formulation of cosmetic, pharmaceutical and hygiene compsns. such as skin- and hair-care compsns., or sunscreen preparations.

ADVANTAGE - (I) have excellent stability and can be produced with a chosen particle size and polydispersity and which give cosmetics which may be transparent, translucent or opaque.

ABSTRACTED-PUB-NO:

EP 749747B

EQUIVALENT-ABSTRACTS:

Compsns. (I) comprise, in a medium acceptable for cosmetic, pharmaceutical and/or hygienic use, a dispersion of particles of at least one polymer surface-stabilised by a stabilising agent in a non-aq. medium, provided that: (a) the non aq. medium is composed of at least one non-aq. liq. chosen from (i) non-aq. liq. compsns. having an overall solubility parameter in the HANSEN interval of solubility of  $< 17 \text{ (MPa)}^{1/2}$ , and/or (ii) mono-alcohols with an overall solubility parameter in the HANSEN interval of solubility of at most  $20 \text{ (MPa)}^{1/2}$ ; and (b) (i) when the non-aq. medium comprises at least one silicone oil, the stabilising agent is chosen from graft or sequenced block copolymers having at least one polyorganosiloxane unit and at least one radical polymer unit, or a polyether or a polyester; and (ii) when the non-aq. medium contains no silicone oil, the stabilising agent is chosen from (A) graft or sequenced block copolymers having at least one polyorganosiloxane unit and at least one radical polymer unit, or a polyether or a polyester, (B) copolymers of (meth)acrylates of 1-4C alcohols and copolymers of (meth)acrylates of 8-30C alcohols; and (C) graft or sequenced block copolymers having at least one block resulting from the polymerisation of dienes and which is opt. hydrogenated, and at least one block of a vinyl polymer, an acrylic polymer, a polyether and/or a polyester.

USE - (I) are useful, together with additional ingredients such as waxes, oils, gums, hydrocarbon or silicone greases, pigments, fillers, or mother of pearl, in the formulation of cosmetic, pharmaceutical and hygiene compsns. such as skin- and hair-care compsns., or sunscreen preparations.

ADVANTAGE - (I) have excellent stability and can be produced with a chosen particle size and polydispersity and which give cosmetics which may be transparent, translucent or opaque.

US 5851517A

Compsns. (I) comprise, in a medium acceptable for cosmetic, pharmaceutical and/or hygienic use, a dispersion of particles of at least one polymer surface-stabilised by a stabilising agent in a non-aq. medium, provided that: (a) the non aq. medium is composed of at least one non-aq. liq. chosen from (i) non-aq. liq. compsns. having an overall solubility parameter in the HANSEN interval of solubility of  $< 17 \text{ (MPa)}^{1/2}$ , and/or (ii) mono-alcohols with an overall solubility parameter in the HANSEN interval of solubility of at most  $20 \text{ (MPa)}^{1/2}$ ; and (b) (i) when the non-aq. medium comprises at least one silicone oil, the stabilising agent is chosen from graft or sequenced block copolymers having at least one polyorganosiloxane unit and at least one radical polymer unit, or a polyether or a polyester; and (ii) when the non-aq. medium contains no silicone oil, the stabilising agent is chosen from (A) graft or sequenced block copolymers having at least one polyorganosiloxane unit and at least one radical polymer unit, or a polyether or a polyester, (B) copolymers of (meth)acrylates of 1-4C alcohols and copolymers of (meth)acrylates of 8-30C alcohols; and (C) graft or sequenced block copolymers having at least one block resulting from the polymerisation of dienes and which is opt. hydrogenated, and at least one block of a vinyl polymer, an acrylic polymer, a polyether and/or a polyester.

USE - (I) are useful, together with additional ingredients such as waxes, oils, gums, hydrocarbon or silicone greases, pigments, fillers, or mother of pearl, in the formulation of cosmetic, pharmaceutical and hygiene compsns. such as skin- and hair-care compsns., or sunscreen preparations.

ADVANTAGE - (I) have excellent stability and can be produced with a chosen particle size and polydispersity and which give cosmetics which may be transparent, translucent or opaque.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: DISPERSE SURFACE STABILISED POLYMER PARTICLE NON AQUEOUS MEDIUM USEFUL COMPONENT COSMETIC PHARMACEUTICAL HYGIENE COMPOSITION SUNSCREEN SKIN HAIR CARE COMPOSITION

DERWENT-CLASS: A14 A28 A96 B05 D21